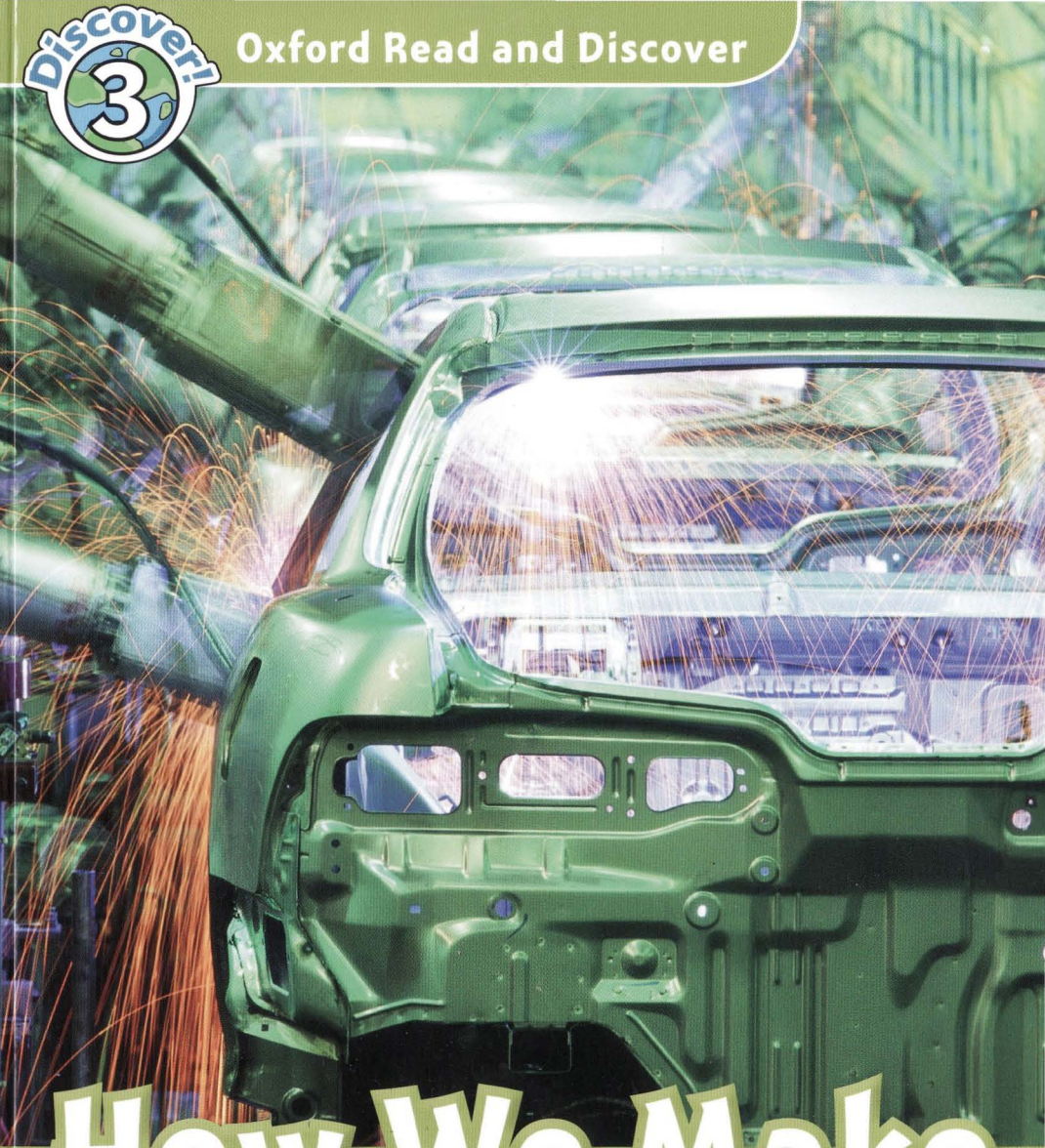




Oxford Read and Discover



# How We Make Products





# How We Make Products

Alex Raynham

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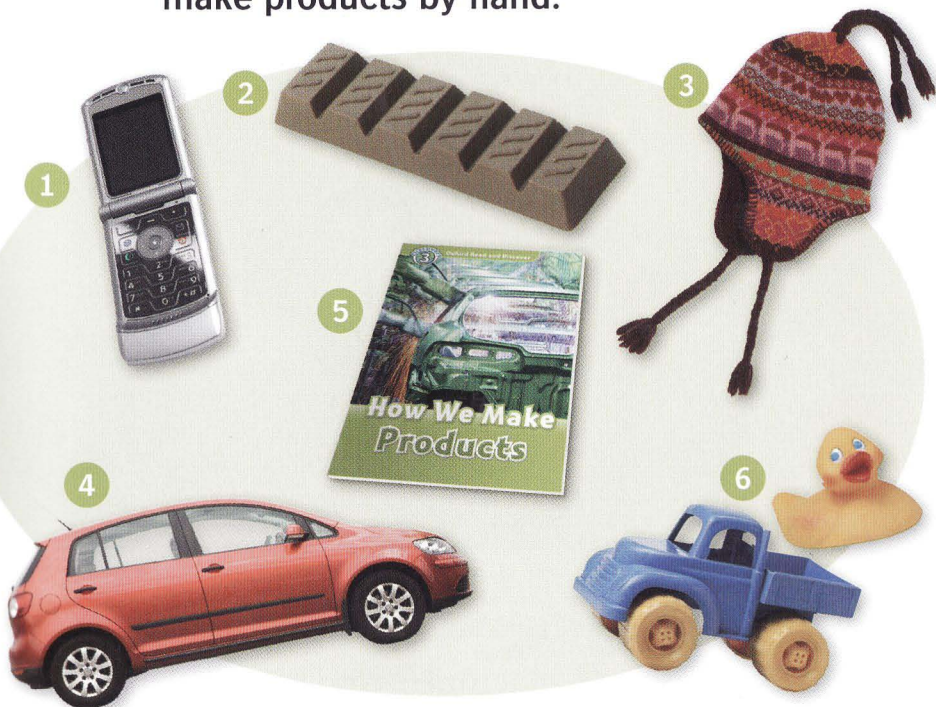
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# Introduction

Products are things that we make and use, like clothes, chocolate, computers, and homes. People make lots of products with big machines in factories. People also make products by hand.



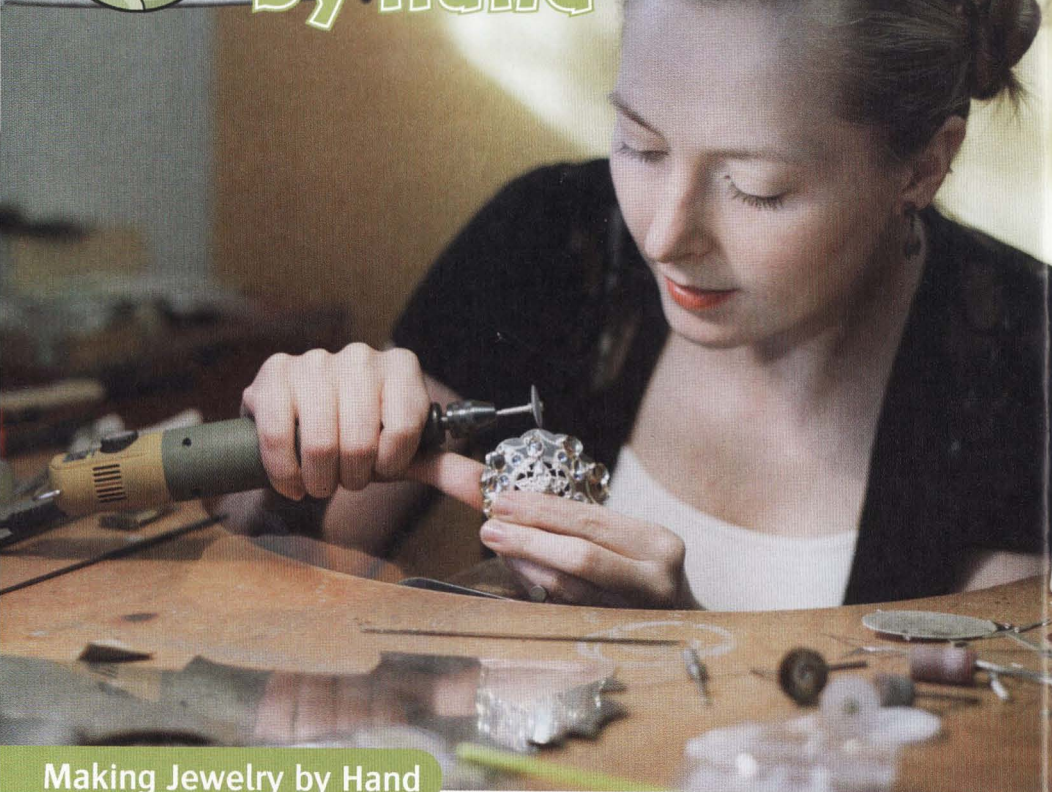
What products can you see here?  
What products do you use every day?  
How do we make these products?



Now read and discover more about  
how we make different products!



# Making Products by Hand



Making Jewelry by Hand

About 200 years ago, there weren't many factories or machines, and people made many products by hand. Today, some people still make products by hand. They use tools to make products like chairs, clocks, jewelry, and musical instruments. It takes years to learn how to make these things.



People make guitars from wood. They cut thin pieces of wood to make the front and back of the guitar. To make the sides, they put long, thin pieces of wood in water. Then they use hot tools to make the wood the right shape for the sides. They fix these pieces together with glue. Later, they make the neck of the guitar, and they put the strings on it.

### Making a Guitar





# 2

## Clothes



sewing machine

Sewing Jeans in a Factory

We make clothes from lots of different materials like wool and cotton.

To make jeans, people use cotton fabric. They cut the fabric into different shapes for pieces of the jeans, like the legs and pockets. They use a sewing machine to sew these pieces together. Then they sew buttons and a zipper on the front of the jeans.



## Knitting

People use wool to make clothes like hats or sweaters. At home, some people use wool and knitting needles to knit clothes. They knit different pieces of the clothes, like the arms, the front, and the back. Then they sew the pieces together. In factories, people use knitting machines to knit clothes.



People don't only knit clothes. Lauren Porter knitted this amazing Ferrari with 19 kilometers of wool!



Go to pages 26–27 for activities.



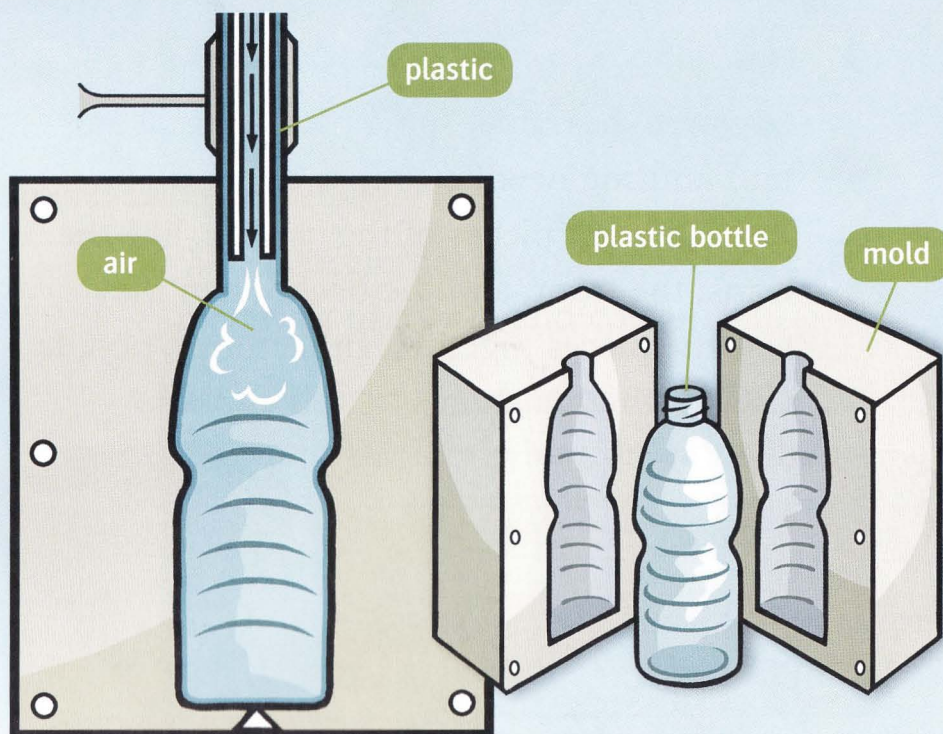
# 3

## Plastic Products

We make a lot of products from plastic, like bottles and toys.

To make a plastic product, machines put hot plastic in a mold. Then the plastic is the same shape as the mold. To make some products like bottles, machines also blow air into the molds.

### How To Make a Plastic Bottle







## Making Plastic Toys

To make a new plastic product like a toy, people draw it and then make a model of it. In a factory, people use the model to make a mold for each part of the toy. Machines put hot plastic in the molds to make plastic parts. People or machines fix the parts together, and they paint the toys. Then the toys go to stores.



It's good to recycle plastic. We can make new things from plastic waste.



# 4

## Cars

To make a car, people use a metal called steel to make a strong chassis. People also use steel to make big shapes for the outside of the car. Then robots fix the outside to the chassis. A conveyor moves the chassis around the car factory, and people fix many parts on the chassis.

### Fixing Parts on a Chassis





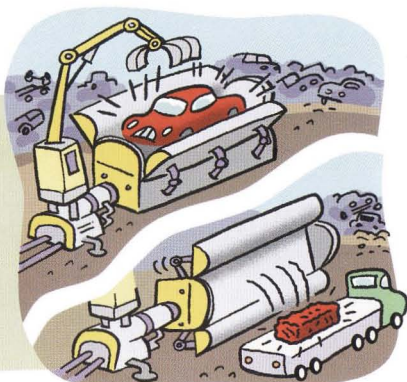


Fixing Doors on a Car

Later, other machines paint the car. Then, people fix other parts on the car, like the engine, doors, wheels, and seats for people to sit on. There are about 35,000 parts in a car!



Around the world, people make 48 million cars every year. This uses lots of steel. We can recycle steel from old cars, and use it again.

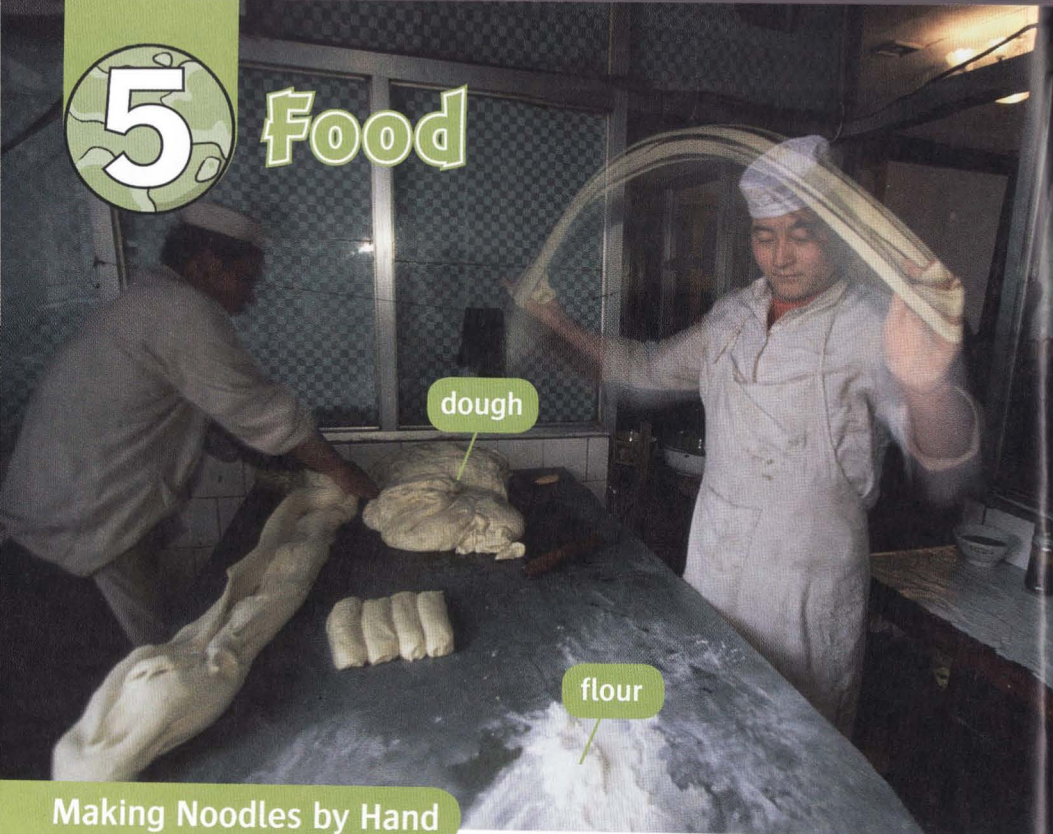


Go to pages 30–31 for activities.



## 5

## Food



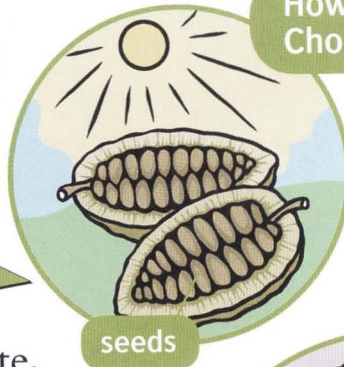
## Making Noodles by Hand

Do you like noodles or chocolate? Do you know how people make this food?

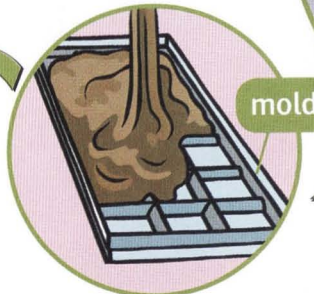
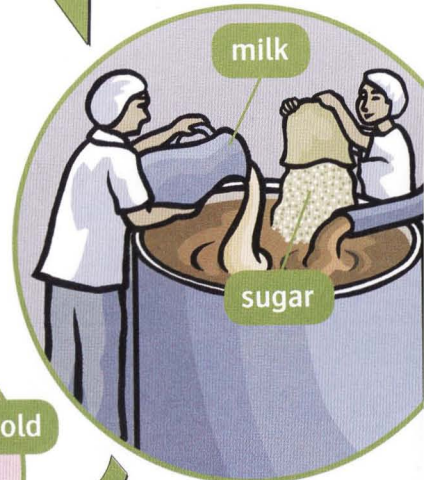
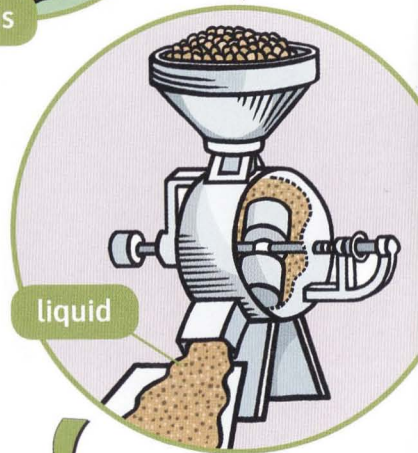
People make noodles from grains like rice or wheat. To make rice noodles, people grind rice into flour. Then they mix flour with water to make dough.

In factories, machines push dough through holes to make noodles. Some people make noodles by hand. They pull the dough between their fingers.

## How To Make Chocolate Bars



To make chocolate, people take seed pods from cacao trees and leave them in the sun. Then they throw away the outside and keep the seeds. Machines grind and heat the seeds, and then the seeds become a liquid. Then people cook this liquid with sugar and sometimes milk. They put the liquid in molds to make chocolate bars.





# 6

# Homes

column

floor

## Building an Apartment Block

We build different homes in different ways. To build an apartment block, people make shapes for the floors and columns from long pieces of steel. Then

### Making a Concrete Floor

people put wood around the shapes, and they put a liquid called concrete in them. When the concrete becomes hard like stone, they take the wood away.

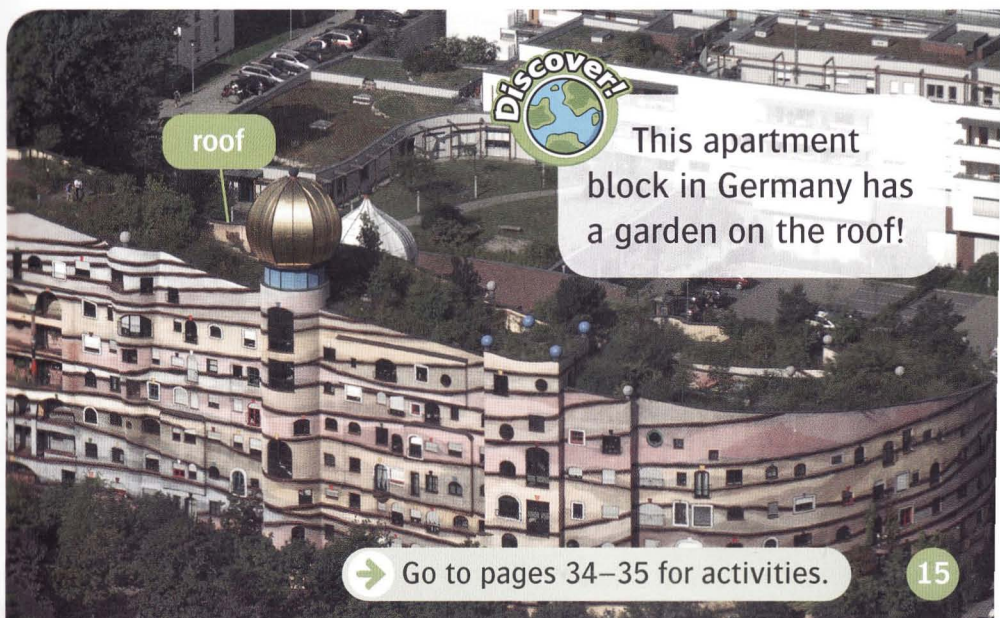
steel

concrete



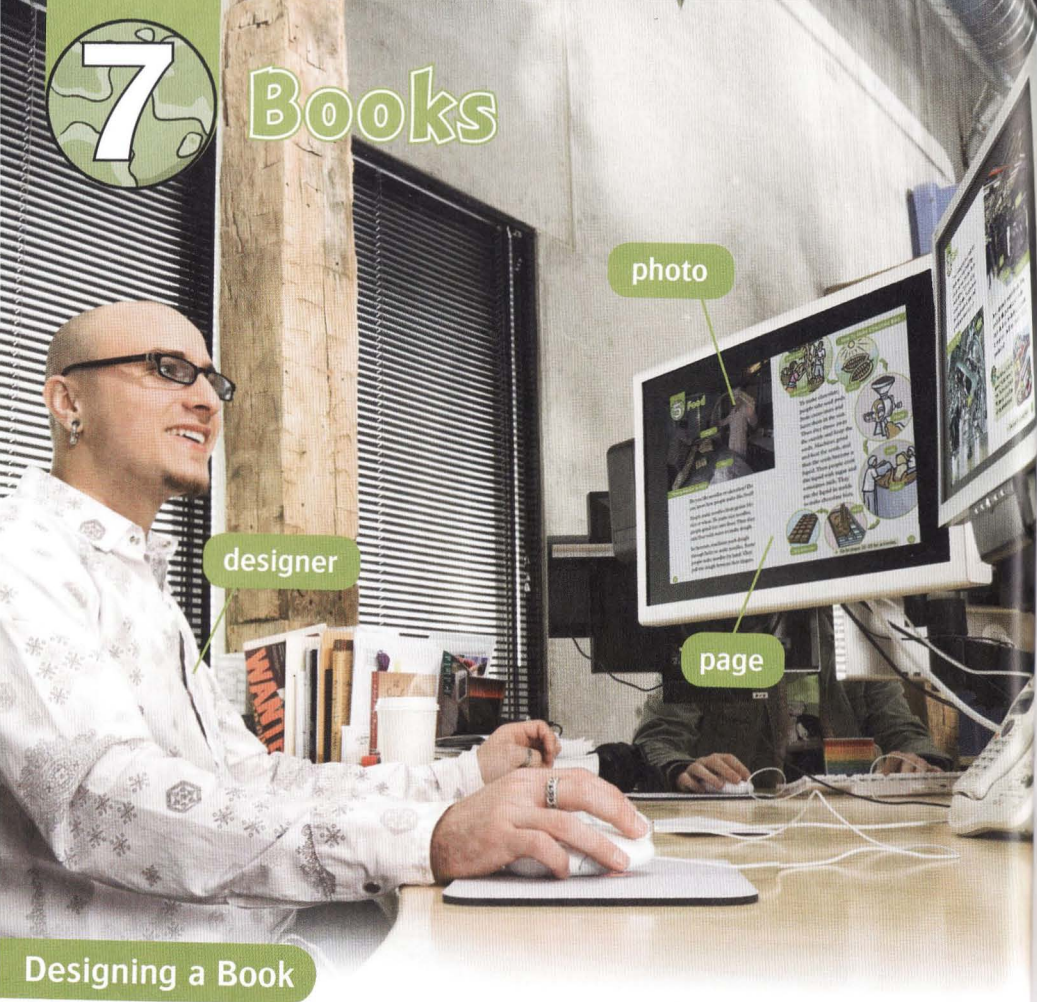
People build walls to make the rooms in each apartment. They put wires in the walls to carry electricity, and they put pipes in the walls and floors to carry water. They often fix tiles on the floors, and on the walls in the bathroom and kitchen. They put plaster on the walls. Then they can paint the walls.

### Putting Plaster on a Wall



# 7

# Books



Designing a Book

Many people made this book. Do you know how we make books?

An author writes the words, and an editor checks the words. Other people draw pictures or take photos for the book. Designers use a computer to put the words, photos, and pictures into pages.





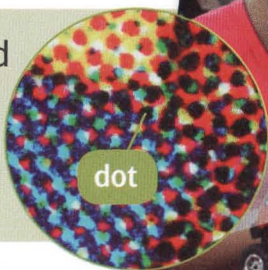
## Printing a Book

In factories, printing machines print the pages on paper. They print 16 pages on one big piece of paper, then other machines cut the paper into pages.

People used machines to fix the pages of this book together. Sometimes people sew the pages together, then they fix them to the cover with glue.



Every picture in a printed book is made of thousands of very small red, blue, yellow, and black dots.



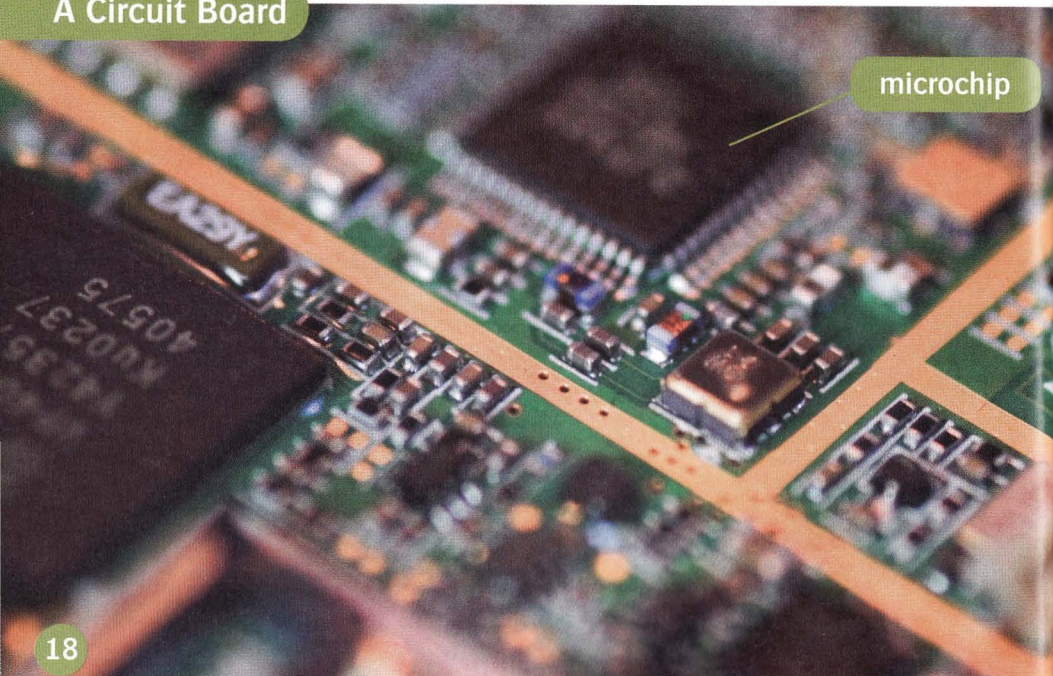
# 8

## Electronic Products

Cell phones, digital cameras, and computers have lots of very small electronic parts inside them. Circuits carry electricity around a product. Microchips are parts with thousands of small circuits inside them. They make a product work.

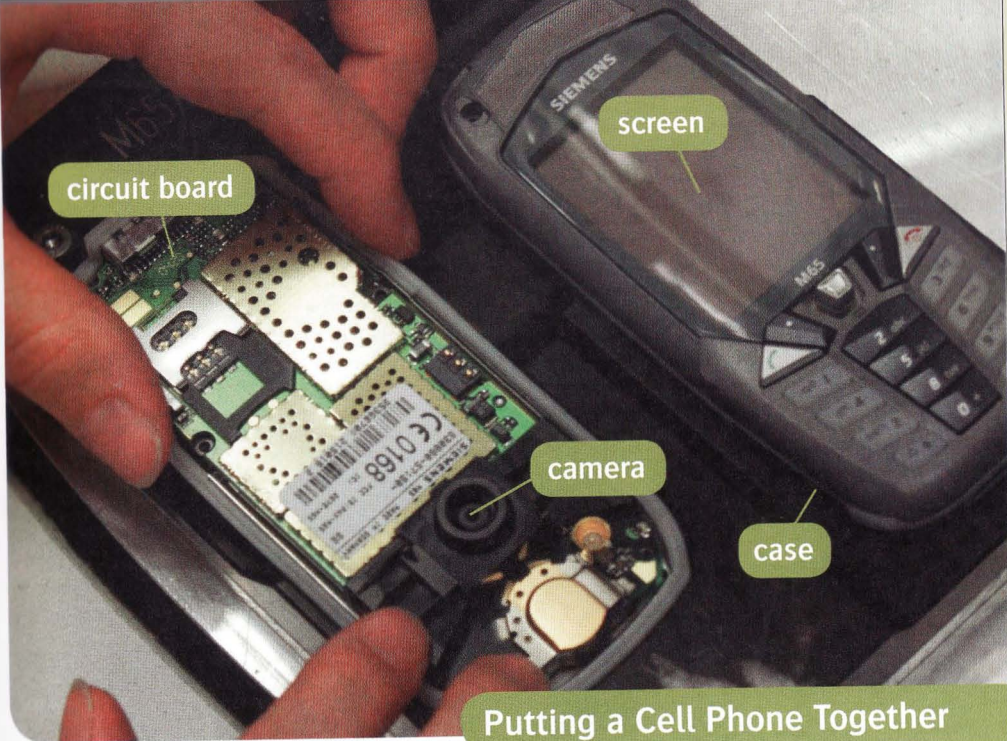
To make a cell phone, people put computer programs on a microchip. Then they fix the microchip and other electronic parts on a circuit board.

### A Circuit Board



microchip



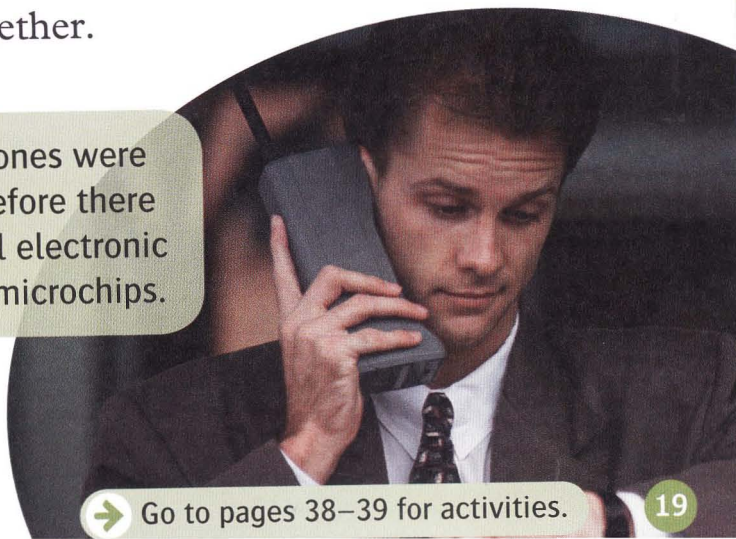


### Putting a Cell Phone Together

People make the phone case from plastic. They fix the circuit board and parts like the screen and camera inside the case. Then they put the front and back of the case together.



Cell phones were very big before there were small electronic parts like microchips.



Go to pages 38–39 for activities.

# 9

## Computer Games

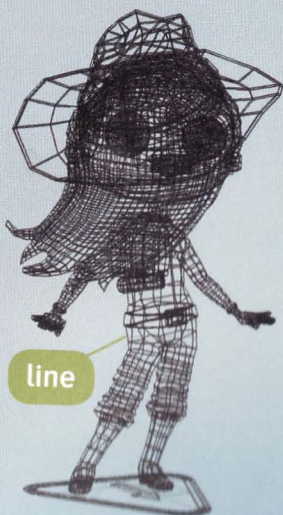
To make computer games, people write computer programs.

People also make digital characters for the games. To make a digital character, people make a drawing. Then they use a computer to make the picture into a digital skeleton, made of lines. On the computer, people can move the skeleton and they can see it from different sides. Then they add a face, clothes, and colors.

### Making a Digital Character



drawing



digital skeleton



finished character





### Using Sensors

Sometimes, to help to make a digital character, people use machines called sensors. A person wears the sensors. The sensors tell a computer how the person moves, and the computer makes a moving picture of the character. Then computer programs move the characters on the screen when people play the game.

People play a new game to check it. Then they sell the game on the Internet or in stores.



Go to pages 40–41 for activities.



# Products and Our World



When we make products, we use energy like electricity. To make one car, we use the same energy as someone watching television for 100 years! We also use materials and make waste. To make one car, we make about 28 metric tons of waste.

Every day, people throw away millions of products like toys, cans, and bottles. Most waste goes to landfills, and sometimes people throw waste in other places like rivers. This is bad for our world.



It's good to recycle old products. We can use materials from old products to make new things, like this bag.



We can recycle old products like plastic bottles, metal cans, and clothes. At recycling centers, people sort the old products. Then machines use the old products to make recycled materials. We can use these materials to make new products.

### At a Recycling Center



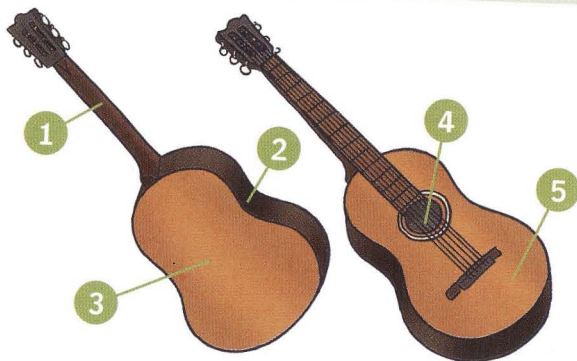
# 1

## Making Products by Hand

← Read pages 4–5.

### 1 Write the words.

front neck back side strings



- 1 neck
- 2 \_\_\_\_\_
- 3 \_\_\_\_\_
- 4 \_\_\_\_\_
- 5 \_\_\_\_\_

### 2 Complete the sentences.

instruments hand tools jewelry factories

- 1 About 200 years ago, people made products by hand.
- 2 Today, people make lots of products in \_\_\_\_\_.
- 3 You can wear \_\_\_\_\_.
- 4 People make some musical \_\_\_\_\_ by hand.
- 5 They often use \_\_\_\_\_ to make things.



### 3 Match. Then write the sentences.

People make guitars

They make

They cut

They fix the pieces

Then they put

strings on the guitar.

together with glue.

them by hand.

thin pieces of wood.

from wood.

1 People make guitars from wood.

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

5 \_\_\_\_\_

### 4 Circle the odd one out.

1 clocks chairs factories jewelry

2 neck back string front

3 fix make tools cut

4 wood glue water front

### 5 What do people make by hand? Write products from pages 4–5.

1 jewelry \_\_\_\_\_ 3 \_\_\_\_\_

2 \_\_\_\_\_ 4 \_\_\_\_\_

# 2

## Clothes

← Read pages 6–7.

**1** Find and write the words.

c	p	y	c	b	v	z	m
l	z	f	a	b	r	i	c
o	a	n	i	v	j	p	s
t	d	t	c	h	y	p	t
h	r	p	o	c	k	e	t
e	g	w	t	q	s	r	k
s	b	u	t	t	o	n	s
p	w	o	o	l	d	n	u
j	e	a	n	s	w	v	m



1 cotton



2 \_\_\_\_\_



3 \_\_\_\_\_



4 \_\_\_\_\_



5 \_\_\_\_\_



6 \_\_\_\_\_



7 \_\_\_\_\_



8 \_\_\_\_\_

**2** Write *true* or *false*.

- 1 People use wool fabric to make jeans.
- 2 People make some clothes by hand.
- 3 People sew a zipper on the back of the jeans.
- 4 People sew pieces of fabric together to make some clothes.
- 5 People use knitting machines to knit things in factories.

false



### 3 Complete the sentences.

needles pieces machines cotton

- 1 People use materials like \_\_\_\_\_ and wool to make clothes.
- 2 We use sewing \_\_\_\_\_ to make clothes like jeans.
- 3 Knitting \_\_\_\_\_ are tools that we use at home.
- 4 We sew the different \_\_\_\_\_ of wool clothes together.

### 4 Color. Then write the colors, clothes, and materials.

Jess is wearing a pair of jeans.

They are \_\_\_\_\_ and  
they're made of \_\_\_\_\_.

She's also wearing a \_\_\_\_\_.

It's \_\_\_\_\_ and it's made of \_\_\_\_\_.



### 5 What clothes are you wearing today? What color are they, and what are they made of?

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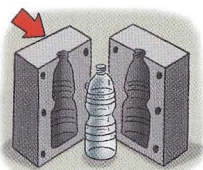
# 3

## Plastic Products

← Read pages 8–9.

toys      blow      waste  
model      mold      recycle

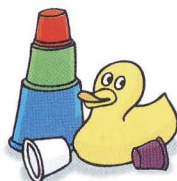
### 1 Write the words.



1 \_\_\_\_\_



2 \_\_\_\_\_



3 \_\_\_\_\_



4 \_\_\_\_\_



5 \_\_\_\_\_



6 \_\_\_\_\_

### 2 Find and write the words.

people shape store parts bottle machine product plastic

1 people

4 \_\_\_\_\_

7 \_\_\_\_\_

2 \_\_\_\_\_

5 \_\_\_\_\_

8 \_\_\_\_\_

3 \_\_\_\_\_

6 \_\_\_\_\_



### 3 Number the sentences in order.

How to Make a Plastic Toy:

They make a mold for each part.

☐

They make a model of the toy.

☐

People or machines fix the parts together.

☐

People draw a new toy.

☒

Machines use hot plastic and molds to make plastic parts.

☐

### 4 Draw and write about two plastic products that you use at home.

This is a \_\_\_\_\_.

I use it to \_\_\_\_\_.

I like it because \_\_\_\_\_.

\_\_\_\_\_.

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# 4

## Cars

← Read pages 10–11.

### 1 Find and write the words.



vorobots cisteel midseat skjs door or chassis pr

- 1 We use this metal to make car parts. \_\_\_\_\_
- 2 These machines help us to make cars. \_\_\_\_\_
- 3 You sit on these inside a car. \_\_\_\_\_
- 4 People fix parts on this. \_\_\_\_\_
- 5 You open this to get into a car. \_\_\_\_\_

### 2 Circle the correct words.

- 1 There are thousands of parts / chassis in a car.
- 2 A conveyor fixes things together / moves things.
- 3 Robots fix the outside of the car to the chassis / engine.
- 4 Other people / machines paint the car.
- 5 We can / can't recycle steel from old cars.



### 3 Complete the sentences.

parts   wheels   robots   chassis  
paint   conveyor   shapes

- 1 To make a car, people make a strong \_\_\_\_\_.
- 2 People also make big \_\_\_\_\_ for the outside of the car.
- 3 Then \_\_\_\_\_ fix the outside to the chassis.
- 4 A \_\_\_\_\_ moves the chassis around the factory.
- 5 People fix many \_\_\_\_\_ on the chassis.
- 6 Later, other machines \_\_\_\_\_ the car.
- 7 Then people fix parts on the car like the \_\_\_\_\_.

### 4 Answer the questions.

- 1 What is a car chassis made of?  
A car chassis is made of steel.
- 2 How many parts are there in a car?  
\_\_\_\_\_
- 3 How many cars do people make every year?  
\_\_\_\_\_
- 4 What can people do with old cars?  
\_\_\_\_\_



Read pages 12–13.

**1 Write the words.**

dough    fingers    noodles    flour

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

**2 Write *noodles* or *chocolate bars*.**

- 1 We put liquid into molds to make these. chocolate bars
- 2 We use water to make these. \_\_\_\_\_
- 3 These are made from the seeds of trees. \_\_\_\_\_
- 4 These have sugar in them. \_\_\_\_\_
- 5 We can make these from grains. \_\_\_\_\_



### 3 Number the sentences in order.

#### How to Make Chocolate Bars:

People put sugar and milk into the liquid.

☐

People leave the seed pods in the sun.

☐

People take the seed pods from the cacao tree.

☐

They put the liquid in molds.

☐

Machines grind and heat the seeds.

☐

They throw away the outside and keep the seeds.

☐

### 4 Circle the correct words.

1 We grind cacao / rice to make flour.

2 We mix flour and water / milk to make dough.

3 In factories, machines push dough through seeds / holes to make noodles.

4 To make noodles, people pull / push the dough between their fingers.

### 5 What is your favorite food? When do you eat it?

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# 6 Homes

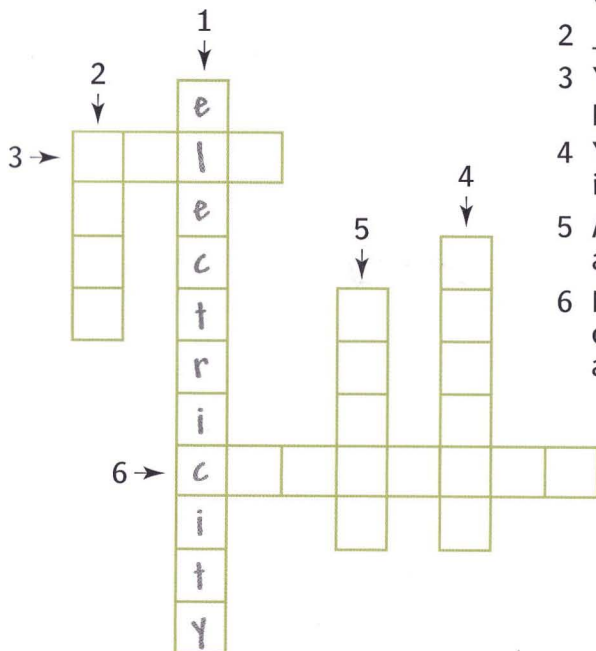
← Read pages 14–15.

## 1 Match.

- 1 Tiles
- 2 Pipes
- 3 Concrete
- 4 Wires
- 5 Plaster

can be a liquid.  
carry electricity.  
goes on walls.  
go on walls and floors.  
carry water.

## 2 Complete the puzzle.



- 1 Things like lights and televisions use \_\_\_\_.
- 2 \_\_\_\_ comes from trees.
- 3 You can put a picture on a \_\_\_\_.
- 4 You can find flowers in a \_\_\_\_.
- 5 A lot of people live in an apartment \_\_\_\_.
- 6 People make columns from steel and \_\_\_\_.



### 3 Write *true* or *false*.

- 1 We build all homes in the same way. \_\_\_\_\_
- 2 We use steel to build apartment blocks. \_\_\_\_\_
- 3 We build walls to make the rooms in an apartment. \_\_\_\_\_
- 4 Pipes carry electricity around a home. \_\_\_\_\_
- 5 We put plaster on the walls after we paint them. \_\_\_\_\_
- 6 You can put tiles on walls. \_\_\_\_\_

### 4 Answer the questions about your home.

- 1 Do you live in a house or an apartment?  
\_\_\_\_\_
- 2 How many rooms are there in your home?  
\_\_\_\_\_
- 3 What color are the walls?  
\_\_\_\_\_
- 4 Do you have tiles in your home?  
\_\_\_\_\_
- 5 What is your favorite room?  
\_\_\_\_\_

# 7 Books

← Read pages 16–17.

## 1 Complete the sentences.

print glue pages cover dots

- 1 There are 48 \_\_\_\_\_ in this book.
- 2 The \_\_\_\_\_ is the outside of a book.
- 3 We \_\_\_\_\_ the book on paper.
- 4 All the pictures in this book are made of \_\_\_\_\_.
- 5 Sometimes we use \_\_\_\_\_ to fix the book together.

## 2 Number the sentences in order.

**How to Make a Book:**

Designers put the words and pictures into pages.

Other machines cut the paper into pages.

Authors write the words.

People fix the pages together.

Machines print the pages.

Other people draw pictures or take photos.

Editors check the words.

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐



### 3 Find and write the words from pages 16–17.

- 1 three people who make books

author \_\_\_\_\_

- 2 two machines that make books

\_\_\_\_\_

- 3 two parts of a book

\_\_\_\_\_

### 4 Answer the questions.

- 1 What do designers use to put the words and pictures into pages?

\_\_\_\_\_

- 2 How many pages do machines print on one piece of paper?

\_\_\_\_\_

- 3 What are the pictures in books made of?

\_\_\_\_\_

- 4 What do editors do?

\_\_\_\_\_

- 5 How did people fix the pages of this book together?

\_\_\_\_\_

# 8

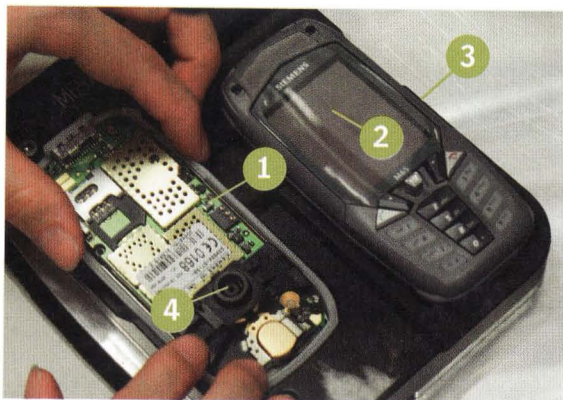
## Electronic Products



Read pages 18–19.

### 1 Write the words.

screen    circuit board  
camera    case



1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

### 2 Complete the sentences.

plastic    cameras    circuits  
electronic    electricity

1 Circuits carry \_\_\_\_\_ around a product.

2 There are lots of \_\_\_\_\_ parts inside cell phones.

3 Microchips have small \_\_\_\_\_ inside them.

4 People make cell phone cases from \_\_\_\_\_.

5 A lot of cell phones have \_\_\_\_\_.



### 3 Write *true* or *false*.

- 1 Electronic products have microchips. \_\_\_\_\_
- 2 Electronic parts are usually very big. \_\_\_\_\_
- 3 People make phone cases from metal. \_\_\_\_\_
- 4 The first cell phones had microchips. \_\_\_\_\_

### 4 Find and write the words.

a	n	m	i	s	f	d	t	h	o	e
j	g	i	w	k	x	q	p	y	c	l
v	m	c	e	l	l	p	h	o	n	e
r	b	r	u	z	l	o	p	i	j	c
p	r	o	g	r	a	m	n	g	c	t
b	c	c	i	r	c	u	i	t	a	r
y	p	h	y	c	a	d	t	h	m	o
n	s	i	s	k	s	c	r	e	e	n
a	n	p	n	i	e	s	c	p	r	i
r	o	h	t	d	f	s	i	n	a	c

- 1 cell phone
- 2 c
- 3 s
- 4 c
- 5 m
- 6 e
- 7 p
- 8 c

### 5 What electronic products do you use every day? What do you use them for?

---

---

---

# 9

# Computer Games



Read pages 20–21.

## 1 Write the words.

sensors    digital character    digital skeleton    drawing



1 \_\_\_\_\_



2 \_\_\_\_\_



3 \_\_\_\_\_



4 \_\_\_\_\_

## 2 Match.

- 1 Computer games
- 2 Digital skeletons
- 3 People play new
- 4 Digital characters
- 5 Sensors

tell computers how a person moves.

are people in computer games.

are made with computer programs.

computer games to check them.  
are made of lines.



### 3 Number the sentences in order.

#### How to Make a Computer Game:

People sell the game on the Internet or in stores.

They use computers to make digital skeletons.

People draw the characters in the game.

They check the game.







People add faces, clothes, and colors to the skeletons.

### 4 Order the letters with the same color to find the words. Then write the words.

PLAYER 1      SCORE 47563241

d	k	g	p	e	i
c	s	o	t	e	m
s	t	o	n	g	a
o	n	r	e	o	r
e	r	n	m	u	s
t	i	r	r	l	o
e	s	l	a	p	p

1		<u>computer</u>	4		<u>s</u>
2		<u>s</u>	5		<u>p</u>
3		<u>p</u>	6		<u>d</u>

# 10

# Products and Our World

← Read pages 22–23.

electricity    landfill    sort  
river    cans    recycling center

## 1 Write the words.



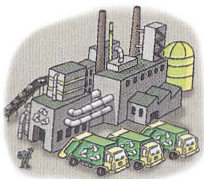
1 \_\_\_\_\_



2 \_\_\_\_\_



3 \_\_\_\_\_



4 \_\_\_\_\_



5 \_\_\_\_\_



6 \_\_\_\_\_

## 2 Complete the sentences.

recycled    recycling    recycle    products    use

- 1 We can \_\_\_\_\_ old products.
- 2 At \_\_\_\_\_ centers, people sort the old products.
- 3 Machines \_\_\_\_\_ the old products to make  
\_\_\_\_\_ materials.
- 4 We use these new materials to make new \_\_\_\_\_.

### 3 Order the words.

1 we / products, / make / energy. / use / we / When

When we make products, we use energy.

2 millions / throw / Every / away / people / day, / products. / of

3 waste / to / Most / goes / landfills.

4 Some / goes / rivers. / in / waste

5 can / products. / old / We / recycle

### 4 Find these numbers in the book. Then write sentences.

1 (19)

There are 19 Kilometers of wool in the Ferrari.

2 (35,000)

3 (48,000,000)

4 (16)

5 (28)





# A Product Poster

- 1** Choose a product in this book.
- 2** Answer these questions and write notes.



What is the product?

What material is it made of?

Is it made by hand or in factories?

How do people make it?

What is it used for?

- 3** Make a poster. Find or draw pictures of your product and write sentences.
- 4** Display your poster.

# Project 2

## Products in My Room

- 1 Write eight different types of product that are in your room at home. Complete the chart.

	What is it?	What's it made of?	What do you use it for?
1			
2			
3			
4			
5			
6			
7			
8			

- 2 Make a poster about products that are in your room. Find or draw pictures of the products.
- 3 Display your poster.

# Picture Dictionary



blow



buttons



cans



chocolate



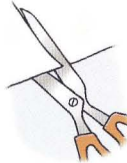
clothes



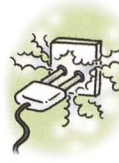
cotton



cover



cut



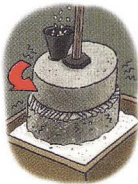
electricity



fabric



grains



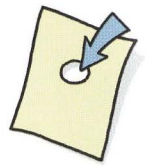
grind



hard



heat



hole



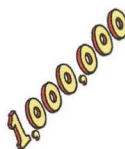
landfill



machine



metal



million

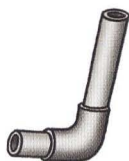


model





musical  
instruments



pipe



plastic



pocket



pull



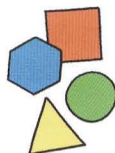
push



recycle



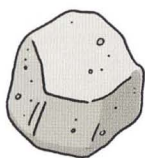
river



shapes



sort



stone



strings



throw  
away



tiles



tools



waste



wheat



wood



wool



zipper



# Oxford Read and Discover

Series Editor: Hazel Geatches • CLIL Adviser: John Clegg

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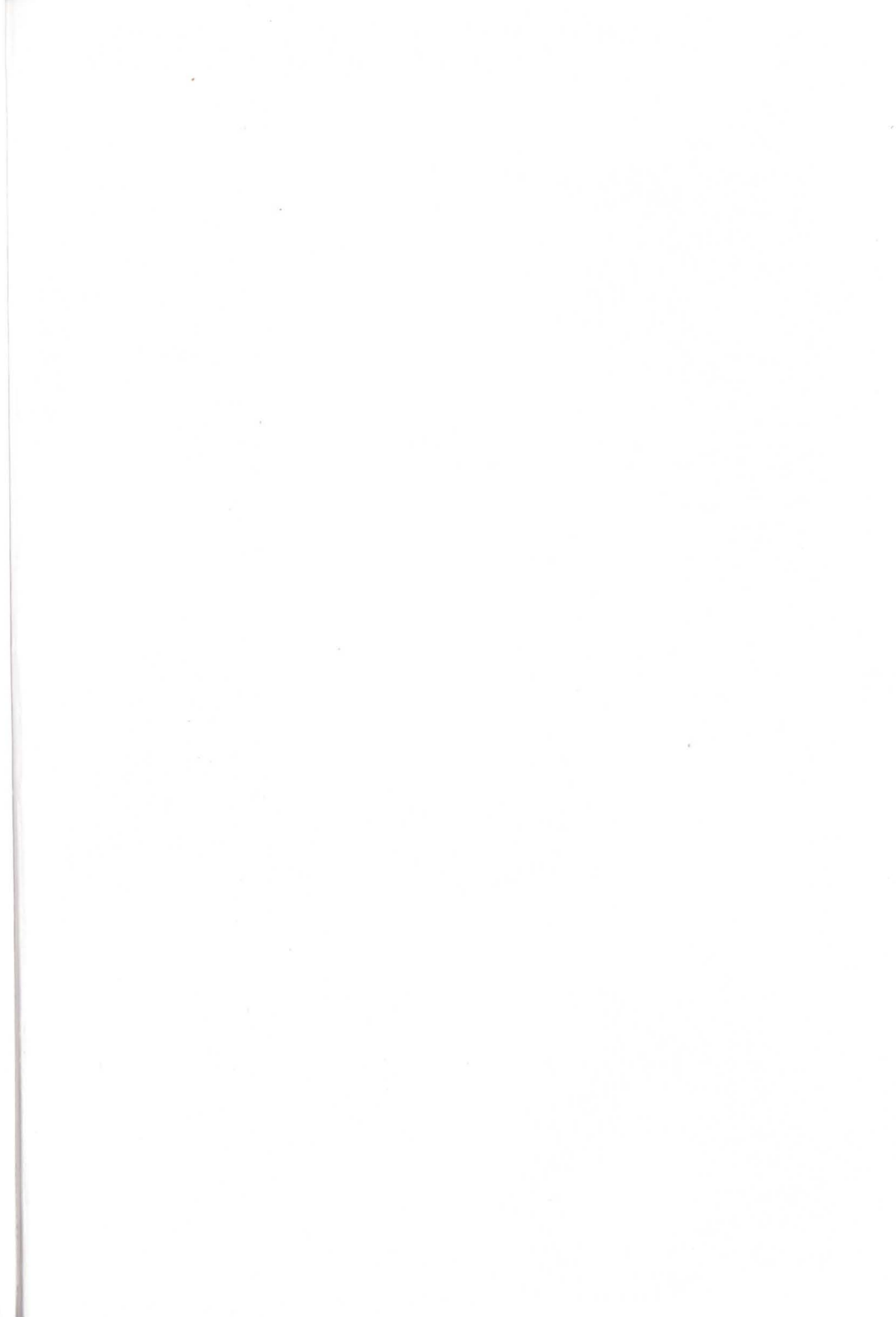
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Subject Area Level	The World of Science & Technology	The Natural World	The World of Arts & Social Studies
<b>3</b> 600 headwords	<ul style="list-style-type: none"><li>• How We Make Products</li><li>• Sound and Music</li><li>• Super Structures</li><li>• Your Five Senses</li></ul>	<ul style="list-style-type: none"><li>• Amazing Minibeasts</li><li>• Animals in the Air</li><li>• Life in Rainforests</li><li>• Wonderful Water</li></ul>	<ul style="list-style-type: none"><li>• Festivals Around the World</li><li>• Free Time Around the World</li></ul>
<b>4</b> 750 headwords	<ul style="list-style-type: none"><li>• All About Plants</li><li>• How to Stay Healthy</li><li>• Machines Then and Now</li><li>• Why We Recycle</li></ul>	<ul style="list-style-type: none"><li>• All About Desert Life</li><li>• All About Ocean Life</li><li>• Animals at Night</li><li>• Incredible Earth</li></ul>	<ul style="list-style-type: none"><li>• Animals in Art</li><li>• Wonders of the Past</li></ul>
<b>5</b> 900 headwords	<ul style="list-style-type: none"><li>• Materials to Products</li><li>• Medicine Then and Now</li><li>• Transportation Then and Now</li><li>• Wild Weather</li></ul>	<ul style="list-style-type: none"><li>• All About Islands</li><li>• Animal Life Cycles</li><li>• Exploring Our World</li><li>• Great Migrations</li></ul>	<ul style="list-style-type: none"><li>• Homes Around the World</li><li>• Our World in Art</li></ul>
<b>6</b> 1,050 headwords	<ul style="list-style-type: none"><li>• Cells and Microbes</li><li>• Clothes Then and Now</li><li>• Incredible Energy</li><li>• Your Amazing Body</li></ul>	<ul style="list-style-type: none"><li>• All About Space</li><li>• Caring for Our Planet</li><li>• Earth Then and Now</li><li>• Wonderful Ecosystems</li></ul>	<ul style="list-style-type: none"><li>• Helping Around the World</li><li>• Food Around the World</li></ul>

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Oxford Read and Discover

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Alex Raynham

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- How do we make chocolate bars?

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**Level 3**

600 headwords



**Level 4**

750 headwords



**Level 5**

900 headwords



**Level 6**

1,050 headwords

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